

SUB
EI
~~HA~~

036544 080600

~~Claim 4, line 1 delete "or apparatus".~~


 43

SUB
EL



8. (Amended) A method [or apparatus] as claimed in claim 5[, 6 or 7] wherein the blocks of print elements are adapted to print swaths of equal width, and the cyclic pitch of the repeating pattern is an integral multiple of the swath width.

9. (Amended) A method [or apparatus] as claimed in [any of claims] claim 5 [to 8] wherein the swaths are regularly distributed within the cycle of the repeating pattern.

10. A method [or apparatus] as claimed in [any preceding] claim 1 wherein each swath of a traverse is contiguous with at least one neighboring swath of that traverse.

11. (Amended) A method [or apparatus] as claimed in [any preceding] claim 1 wherein the width of the printhead is greater than the width of the surface.

12. (Amended) A method [or apparatus] as claimed in claim 11 [when dependent from claim 5 or 6] wherein the blocks form a repeating pattern with constant pitch and when there are n said different colours the width of the printhead exceeds that of the surface by $(n-1)/n$ of a pitch.

10 13. (Amended) A method [or apparatus] as claimed in [any preceding] claim 1 wherein the intensity of printing or overprinting of a pixel is adjusted according to the order of colours in which it has been or will be printed or overprinted whereby the hue of the completed pixel is unaffected by the order in which its constituent colours were printed.

11 14. (Amended) A method [or apparatus] as claimed in [any preceding] claim 1 wherein the print resolution is increased by overprinting at least one swath with a swath of the same colour having relatively indexed the surface and the printhead so that the overprinting prints pixels interpolated between previously-printed pixels of the same colour.

Claim 15, line 1 delete "or apparatus".

12 16. (Amended) A method [or apparatus] as claimed in [any preceding] claim 1 wherein within each block or group of blocks the print elements are deployed so as to extend at an angle to the indexing direction and reduce the effective spacing of the pixels in the indexing direction.

Claim 21, line 1 delete "or 19".

22. (Amended) A printhead as claimed in [any of claims] claim 17²⁶ [to 21] wherein the blocks are contiguous.

A5 [23. (Amended) A printhead as claimed in [any of claims] claim 17 [to 21] wherein the blocks are evenly spaced.] E

29 24. (Amended) A printhead as claimed in [any of claims] claim 17²⁶ [to 23] wherein there are two parallel arrays alongside each other.

Claim 26, line 1 delete "or any claim dependent therefrom".

Please add new claims 27-40 as follows:

B A6 [27. An apparatus as claimed in claim 2 wherein the blocks of elements are arranged in groups, the blocks in each group being adapted for printing in different colours from each other, the array comprising at least two groups, a swath printed by a block of one group being at least partially overprinted by a swath printed by a block of another group.] E

SUB E4 [28. An apparatus as claimed in claim 27 wherein the groups are of equal width in the array direction.]

29. An apparatus as claimed in claim 2 wherein the blocks form a repeating pattern of constant pitch.

30. An apparatus as claimed in claim 28 wherein within each group the blocks form a repeating pattern of constant pitch.

31. An apparatus as claimed in claim 29 wherein printing is complete when the printhead and the surface have been relatively indexed through one cycle of the repeating pattern.

32. An apparatus as claimed in claim 29 wherein the blocks of print elements are adapted to print swaths of equal width, and the cyclic pitch of the repeating pattern is an integral multiple of the swath width.

33. An apparatus as claimed in claim 29 wherein the swaths are regularly distributed within the cycle of the repeating pattern.

¹⁹
34. An apparatus as claimed in claim ¹⁴2 wherein each swath of a traverse is contiguous with at least one neighbouring swath of that traverse.

²⁰
35. An apparatus as claimed in claim ¹⁴2 wherein the width of the printhead is greater than the width of the surface.

22

A

Cont
A6
SUB
E4
669080 21569260

SUB
ES

Cont
A6

[illegible]~~24~~
~~39.~~

14

14